version, except that marked up versions are not being supplied for any added claim or canceled claim.

1. (Twice Amended) A method of removing at least some of a material from a semiconductor substrate, comprising:

providing a feed gas comprising at least 99.999% O2 (by volume);

in an absence of additionally added gases, feeding the feed gas through an ozone generator to generate ozone from the feed gas; and

contacting the ozone or a fragment of the ozone with a material on a semiconductor substrate to remove at least some of the material from the semiconductor substrate.

- The method of claim 1 further comprising irradiating at least some of the ozone with ultraviolet light prior to the contacting.
- 3. The method of claim 1 further comprising irradiating at least some of the ozone with ultraviolet light proximate the material.
- 4. The method of claim 1 wherein the material on the semiconductor substrate is photoresist.

- 5. The method of claim 1 further comprising mixing the ozone with water vapor prior to the contacting.
- 6. The method of claim 1 further comprising mixing the ozone with an organic solvent vapor prior to the contacting.
- 7. (Amended) A method of removing at least some of a material from a semiconductor substrate, comprising:

providing a feed gas comprising O_2 and less than or equal to 0.001% N_2 (by volume);

in an absence of additionally added gases, feeding the feed gas through an ozone generator to generate ozone from the feed gas; and

contacting the ozone or a fragment of the ozone with a material on a semiconductor substrate to remove at least some of the material from the semiconductor substrate.

- 8. The method of claim 7 further comprising irradiating at least some of the ozone with ultraviolet light prior to the contacting.
- The method of claim 7 wherein the material on the semiconductor substrate is photoresist.

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- 10. The method of claim 7 further comprising mixing the ozone with water vapor prior to the contacting.
- 11. The method of claim 7 further comprising mixing the ozone with an organic solvent vapor prior to the contacting.

12. (Amended) A method of removing at least some of a material from semiconductor substrate, comprising:

providing a feed gas comprising O_2 and less than or equal to 0.001% N_2 (by volume);

in an absence of additionally added gases, feeding the feed gas through an ozone generator to generate ozone from the feed gas;

forming a mixture of ozone and organic solvent vapors in a reaction chamber; and

contacting at least some of the ozone and solvent vapors with a material on a semiconductor substrate to remove at least some of the material from the semiconductor substrate.

13. The method of claim 12 wherein the material on the semiconductor substrate is photoresist.

- 14. The method of claim 12 wherein the material on the semiconductor substrate is photoresist; wherein the semiconductor substrate comprises Al_2O_3 ; and further comprising exposing at least some of the Al_2O_3 to the ozone during the contacting.
- 15. The method of claim 12 wherein the material on the semiconductor substrate is photoresist; wherein the semiconductor substrate comprises platinum; and further comprising exposing at least some of the platinum to the ozone during the contacting.
- 16. The method of claim 12 further comprising providing a reservoir of volatile organic solvent within the reaction chamber and forming the solvent vapors from the volatile organic solvent.
- 17. The method of claim 16 wherein the volatile organic solvent is a liquid.
- 18. The method of claim 16 wherein the volatile organic solvent comprises acetone.
- 19. The method of claim 16 wherein the volatile organic solvent consists essentially of acetone.

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- 20. The method of claim 16 wherein the volatile organic solvent comprises cyclohexanone.
- 21. The method of claim 16 wherein the volatile organic solvent consists essentially of cyclohexanone.
- 22. The method of claim 16 wherein the volatile organic solvent comprises a mixture of cyclohexanone and PGMEA.
- 23. The method of claim 16 wherein the volatile organic solvent comprises propylene glycol.
- 24. The method of claim 12 further comprising providing a reservoir of volatile organic solvent within the reaction chamber and heating the volatile organic solvent to form the solvent vapors from the volatile organic solvent.

25. (Amended) A method of removing at least some of a material from semiconductor substrate, comprising:

providing a feed gas comprising O_2 and less than or equal to 0.001% N_2 (by volume);

in an absence of additionally added gases, feeding the feed gas through an ozone generator to generate ozone from the feed gas;

forming a mixture of ozone and organic solvent vapors in a reaction chamber;

irradiating at least some of the ozone with ultraviolet light to form ozone fragments from the ozone; and

contacting at least some of the ozone fragments and solvent vapors with a material on a semiconductor substrate to remove at least some of the material from the semiconductor substrate.

- 26. The method of claim 25 wherein the material on the semiconductor substrate is photoresist.
- 27 The method of claim 25 further comprising providing a reservoir of volatile organic solvent within the reaction chamber and forming the solvent vapors from the volatile organic solvent.

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- 28. The method of claim 27 wherein the volatile organic solvent is a liquid.
- 29. The method of claim 27 wherein the volatile organic solvent comprises acetone.
- 30. The method of claim 27 wherein the volatile organic solvent comprises cyclohexanone.
- 31. The method of claim 27 wherein the volatile organic solvent comprises a mixture of cyclohexanone and PGMEA.
- 32. The method of claim 27 wherein the volatile organic solvent comprises propylene glycol.
- 33. The method of claim 25 further comprising providing a reservoir of volatile organic solvent within the reaction chamber and heating the volatile organic solvent to form the solvent vapors from the volatile organic solvent.
- 34. The method of claim 25 wherein the material on the semiconductor substrate is photoresist; wherein the semiconductor substrate comprises Al_2O_3 ;

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and further comprising exposing at least some of the ${\rm Al_2O_3}$ to the ozone fragments during the contacting.

35. The method of claim 25 wherein the material on the semiconductor substrate is photoresist; wherein the semiconductor substrate comprises platinum; and further comprising exposing at least some of the platinum to the ozone fragments during the contacting.